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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An electrical connector portion, comprising:
an insulating substrate having a first major face and an oppositely disposed second major face;
a plurality of non-recessed apertures extending through the insulating substrate from the first major face to the second major face;
a plurality of elongated electrically conducting ~~members~~pins extending through the ~~respective~~ non-recessed apertures;
a plurality of insulating posts connected to the first major face of the insulating substrate; and
a plurality of reflowable electrical conductors disposed adjacent the first major face and arranged such that respective ones of the plurality of insulating posts contact each of the plurality of reflowable electrical conductors at four separate locations on ~~thea~~ respective reflowable electrical conductor so as to position the respective reflowable electrical conductor and so as to eliminate excess space to prevent unintentional occupancy of an adjacent one of the plurality of reflowable electrical conductors;
wherein each elongated ~~electrical conductor~~ electrically conducting pin extends into a respective reflowable electrical conductor at a fusing interface and each elongated electrically conducting pin has a diameter that is less than a diameter of the respective reflowable electrical conductor at the fusing interface.

Claim 2 (currently amended): The electrical connector portion of claim 1 wherein the elongated ~~electrical conductors~~ electrically conducting pins extend substantially beyond the first major face and the second major face.

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Claim 3 (previously presented): The electrical connector portion of claim 1 wherein the non-recessed apertures are substantially cylindrical in shape.

Claim 4 (previously presented): The electrical connector portion of claim 1 wherein the non-recessed apertures are rectangular slots.

Claim 5 (canceled).

Claim 6 (currently amended): The electrical connector portion of claim 1 wherein the the four separate locations on the respective reflowable electrical conductor at which respective ones of the plurality of insulating posts contact the respective reflowable electrical conductor include two pairs of substantially diametrically opposed locations.

Claim 7 (currently amended): The electrical connector portion of claim 1 wherein thea length of each post is less than thea diameter of an adjacent ~~solder ball~~ reflowable electrical conductor.

Claim 8 (previously presented): The electrical connector portion of claim 1 wherein the posts are substantially rectangular in cross-section and wherein each post further comprises at least one flattened conical contact surface formed thereon.

Claim 9 (previously presented): The electrical connector portion of claim 1 wherein each post further comprises four flattened conical contact surfaces and wherein the flattened conical contact surfaces are arrayed in a rectangular orientation.

Claim 10 (currently amended): The electrical connector portion of claim 1

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wherein the elongated ~~electrical conductors~~ electrically conducting pins are adapted to be matingly engaged by the elongated conductors of a second electrical connector portion positioned adjacent the second major face.

Claim 11 (original): The connector of claim 1 wherein the reflowable electrical conductors are adapted to fusingly engage an electrical device positioned adjacent the first major face.

Claim 12 (currently amended): An electrical connection device, comprising:
a first insulating plate, having a first plate first face for engaging a first device and a first plate second face;
a second insulating plate, having a second plate first face for engaging a second device and a second plate second face for removably engaging a the first plate second face;
a plurality of apertures formed through each respective insulating plate;
a plurality of insulating posts fixed to and extending upwardly from each respective first face;
a plurality of fusible electrical conductors positioned on each respective first face; and
a plurality of electrically conducting pins extending from each respective second face through the apertures;
wherein each respective pin extends into a respective fusible electrical conductor at a fusing interface with each respective pin having a diameter that is less than a diameter of the respective fusible electrical conductor at the fusing interface, and respective ones of the plurality of insulating posts contact each of the plurality of fusible electrical conductors at two pairs of substantially diametrically opposed locations on the respective fusible electrical conductor so as to position the respective fusible electrical conductor and so as to eliminate excess space to prevent unintentional occupancy of an

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adjacent one of the plurality of fusible electrical conductors.

Claim 13 (previously presented): The device of claim 12 wherein the apertures are positioned in an array and wherein the plurality of insulating posts are arrayed around the apertures.

Claim 14 (previously presented): The device of claim 12 wherein the posts are arranged such that four of the posts contact each of the fusible electrical conductors.

Claim 15 (original): The device of claim 12 wherein the posts are substantially rectangular in cross-section and wherein each post further comprises at least one flattened conical contact surface formed thereon.

Claim 16 (original): The device of claim 15 wherein each post further comprises four flattened conical contact surfaces and wherein the flattened conical contact surfaces are arrayed in a rectangular orientation.

Claim 17 (original): The device of claim 12 further comprising a first device fusingly engaged to the first plate first face and a second device fusingly engaged to the second plate first face, wherein the first plate second face is adapted to removably matingly engage the second plate second face, and wherein the first and second devices are in electrical communication through the matingly engaged first and second insulating plates.

Claim 18 (currently amended): An electrical connector apparatus, comprising:
a first electrically insulating connector body having a first substantially planar major side and a second, oppositely disposed substantially planar major side;
a second electrically insulating connector body having a first substantially

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planar major side and a second, oppositely disposed substantially planar major side;

a fusing interface formed on each respective first major side;

a non-fusing interface formed on each respective second major side;

a plurality of non-recessed apertures formed through the respective electrically insulating connector bodies;

a plurality of fusible electrical conductors disposed at each respective using fusing interface;

a plurality of insulating posts extending from each respective first major side; and

a plurality of electrically conducting ~~members~~pins extending through the respective non-recessed apertures and each of the plurality of electrically conducting pins has a diameter that is less than a diameter of a respective one of the plurality of fusible electrical conductors to which the electrically conducting pin is to be fused;

wherein each respective fusing interface is adapted to be fusingly connected to a respective electrical device;

wherein each respective non-fusing interface is adapted to be removably connected to another non-fusing interface;

wherein the insulating posts are arranged such that respective ones of the plurality of insulating posts contact each of the plurality of fusible electrical conductors at four separate locations on the respective fusible electrical conductor so as to position the respective fusible electrical conductor and so as to eliminate excess space to prevent unintentional occupancy of an adjacent one of the plurality of fusible electrical conductors; and

wherein a first electrical device fusingly connected to the first electrically insulating connector body is adapted to be put into electrical communication with a second electrical device fusingly connected to the second electrically insulating connector body through mating connection of the respective non-fusing interfaces.

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Claim 19 (currently amended): The device of claim 18 wherein the plurality of fusible electrical conductors are solder balls and wherein each electrically conducting member pin extends through a respective non-recessed aperture into a respective solder ball.

Claim 20 (canceled).

Claim 21 (currently amended): A method for producing an electrical connector, comprising the steps of:

- a) providing an insulated plate having a first planar side and a second, oppositely disposed planar side and having a plurality of non-recessed apertures formed therethrough and a plurality of insulating posts disposed on the insulated plate;
- b) extending a plurality of electrically conducting pins through the respective apertures;
- c) positioning a solder ball between the plurality of insulating posts such that respective ones of the plurality of insulating posts contact the solder ball at four separate locations thereon so as to position the solder ball and so as to eliminate excess space to prevent unintentional occupancy of an adjacent solder ball, such that each pin is located to be connected to thea surface of a respective solder ball, each of the electrically conducting pins having a diameter that is less than a diameter of the respective solder ball it is to be connected to at a location of the connection between the electrically conducting pin and the respective solder ball;
- d) removably connecting a first electronic device to the pins on the first planar side; and
- e) fusingly connecting a second electronic device to the second planar side.

Claim 22 (previously presented): The method of claim 21 wherein the step of positioning the solder ball includes disposing the solder ball between four of the

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insulating posts such that the solder ball is contacted by only the four of the insulating posts.